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Im Rahmen der

AG Komplexe Analysis

laden wir zu folgendem Vortrag ein:

On the L^p Bergman metric

(Prof. Liyou Zhang, Capital Normal University, China)

am **Mittwoch, den 10.01.2024, um 13 Uhr s.t. in Hörsaal 8 (G.10.03)**.

Abstract: In this talk, we shall introduce two kinds of definitions of the L^p Bergman metric: $B_p(z; X)$ and $i\partial\bar{\partial}\log K_p(z; X)$. We show that $B_p(z; X)$ always dominates the Caratheodory metric $C(z; X)$ (which is known as Lu inequality) and $B_p(z; X)$ tends to $C(z; X)$ as $p \to \infty$. We also show that the generalized Levi form $i\partial\bar{\partial}\log K_p(z; X)$ is no less than $B_p(z; X)^2$ for $p \geq 2$ and $C(z; X)^2$ for $p \leq 2$. When $p = 2$, we establish an equality between the Bergman metric $B_2(z; X)$ and the Caratheodory metric $C(z; X)$ in terms of the Bergman projection. Joint with Boyong Chen.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina